

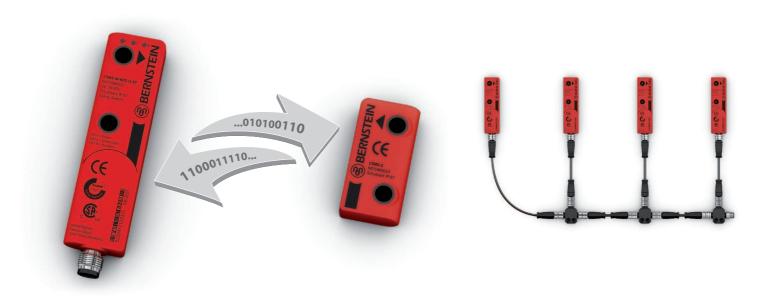


BERNSTEIN CSMS

The most versatile contactless safety monitoring sensor throughout the market

The CSMS Contactless Safety Monitoring Sensor

The **CSMS** is a **contactless safety sensor** which ensures that safety doors and protective guards remain closed. The contactless sensor uses **RFID technology** and can be used individually or in series.



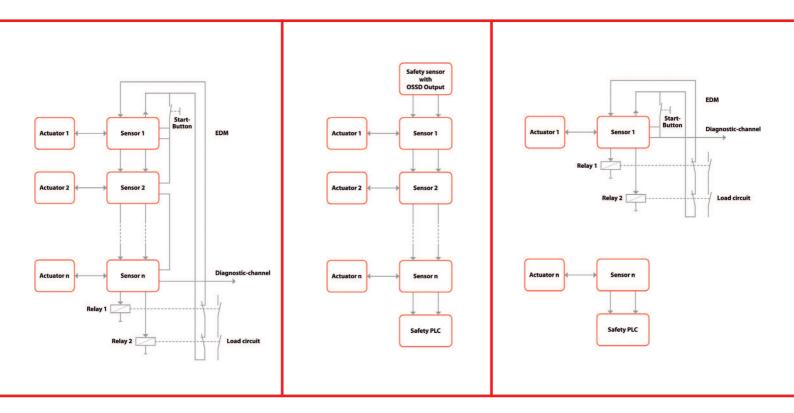
The **CSMS** is a future-proof safety product which already **meets one of the requirements of draft DIN EN ISO 14119** regarding manipulation protection.

The CSMS offers **excellent diagnostics** enabling open safety guards and system errors to be located quickly.

The diagnostics consists of:

- 3 LEDs integrated in the CSMS
- Status indicator and choice of system status by means of basic diagnostics
- Status indicator and choice of system status by means of basis diagnostics device
- Complete system status by means of optional bus gateway, for ex. Profibus (in preparation)

CSMS Series circuits without additional evaluation CSMS Series circuits with evaluation device Individual CSMS with or without additional evaluation



- Series circuits with up to 32 sensors up to PL e
- Integrated return circuit evaluation
- Manual and automatic start
- Direct connection to contactors
- Highly configurable system for ex. CSMS-SET-RRS-U-ST 6075988027
- Series circuits with up to 32 sensors up to PL e
- Connection to an evaluation for ex. safety controller
- Optional connection to a safety sensor for ex. to safety light curtain, with OSSD output to the first CSMS possible
- Highly configurable system for ex. CSMS-SET-R-U-ST 6075988028

- Individual CSMS up to PL e
- Integrated evaluation of a return circuit and start button with direct connection possible to contactors for ex. CSMS-SET-RRS-U-ST 6075988027

or

 Connection to an evaluation for ex. safety controller with or without connection of an additional safety sensor to the first CSMS for ex. CSMS-SET-R-U-ST 6075988028



CSMS product features

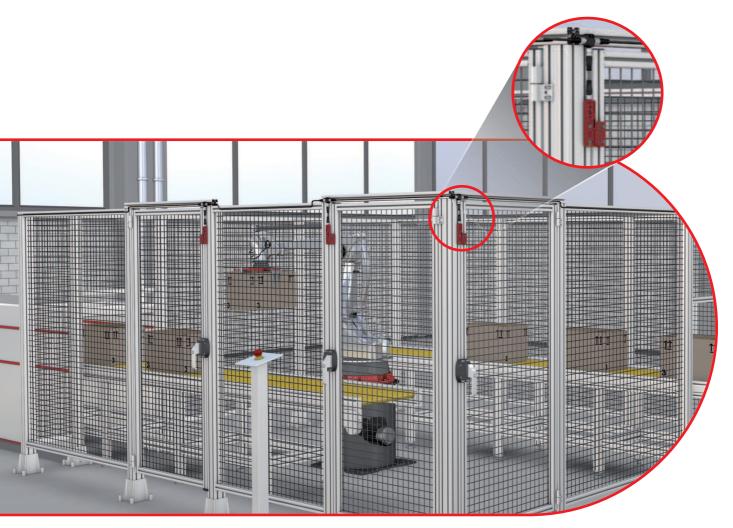


- Performance Level e
- Up to 32 series circuits without leaving the PL e
- High coding level according to draft DIN EN ISO 14119
- An external monitoring device is not necessary
- Connection of a return circuit and start button is possible
- Output current up to 250 mA per safety output
- Large diagnostic possibility
- 3 LEDs for status information of the CSMS
- Switching distance: 13 mm
- Dimensions: 110 mm x 30 mm x 15 mm
- IP 67

Article number	Designation	Description
6075988029	CSMS-SET-RRS-U-KA	Can be switched in series, with EDM and start button monitoring, cable version
6075988027	CSMS-SET-RRS-U-ST	Can be switched in series, with EDM and start button monitoring, M12 connector
6075988030	CSMS-SET-R-U-KA	Can be switched in series, be connected to a monitoring device, cable version
6075988028	CSMS-SET-R-U-ST	Can be switched in series, be connected to a monitoring device, M12 connector
6075989036	T-ADAPTER AS	T-pieces connections for series circuits, standard/automatic start
6075989037	T-ADAPTER MS	T-pieces connections for series circuits, manual start
6075989031	CSMS BASISDIAGNOSE	Diagnostic indicator device
6075989032	CSMS DIAGNOSE 3 OUT	Additional unit of 8 binary diagnotic outputs
6075989035	CSMS BASISANSCHLUSSBOX	Connection device for easy and fast installation of the CSMS system
6075989047	CSMS SLAVE TEACHADAPTER	Tool for teaching in a replacement actuator
6073900070	CSMS DISTANZSTÜCK 8MM	Inferior element for actuator
6075989044	CSMS DISTANZSTÜCK LG 8MM	Inferior element for sensor



CSMS product advantages



- Safety series circuits of up to 32 CSMS up to PL e / SIL 3 (category 4)
- Cost reduction as there is no need of any additional external monitoring
- Easy to use as manual or automatic start is possible with the same CSMS
- Future Safety included as the CSMS correspond to the draft of DIN EN ISO 14119 (which supersedes the EN 1088) concerning individual coding (high coding level)
- Economic system installation as M12 Connectivity reduces installation time and therefore reduces cost
- Time-saving as no wiring errors are possible
- Time-saving because of system status indication via the diagnostic interface
- CSMS is tolerant to misalignment reducing cost of guarding





Switch systems – Economy meets safety



Sensor systems – Compact intelligence



Enclosure systems – Function and design

www.bernstein.eu

Contact

International Headquarter BERNSTEIN AG Tieloser Weg 6 32457 Porta Westfalica Phone + 49 571 793-0 Fax + 49 571 793-555 info@de.bernstein.eu www.bernstein.eu

Denmark BERNSTEIN A/S Phone +45 7020 0522 Fax +45 7020 0177 info@dk.bernstein.eu France BERNSTEIN S.A.R.L. Phone + 33 1 64 66 32 50 Fax + 33 1 64 66 10 02 info@fr.bernstein.eu

Italy BERNSTEIN S.r.I. Phone + 39 035 4549037 Fax + 39 035 4549647 info@it.bernstein.eu

United Kingdom BERNSTEIN Ltd Phone + 44 1922 744999 Fax + 44 1922 457555 info@uk.bernstein.eu **Austria BERNSTEIN GmbH** Phone +43 2256 62070-0 Fax +43 2256 62618 info@at.bernstein.eu

Switzerland BERNSTEIN (Schweiz) AG Phone +41 44 775 71-71 Fax +41 44 775 71-72 info@ch.bernstein.eu

Hungary BERNSTEIN Kft. Phone +36 1 4342295 Fax +36 1 4342299 info@hu.bernstein.eu China BERNSTEIN Safe Solutions (Taicang) Co., Ltd. Phone + 86 512 81608180 Fax + 86 512 81608181 info@bernstein-safesolutions.cn